

Date: Wed, 27 Jan 93 23:59:19 PST
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #122
To: Info-Hams

Info-Hams Digest Wed, 27 Jan 93 Volume 93 : Issue 122

Today's Topics:

 Any other W9RG DSP Filter users on the Net ?
 Burglars are brighter than you might think! (2 msgs)
 Experience with MFJ 9020?
 Ham on Rescue 911
 Ham Radio Causes Cancer
 Info needed on 2m & 70cm Satellite connections.
 KAM 6.0 eprom
 LW antenna
 New filter for RTTY and packet
 QRP amplifier ?
 TM-732 Intermod (was:Kenwood tm-732 mod/functions)
 Transmit Power with Nicads vs. Alkaline
 Update: intermod, desense, overload
 Wheeling Hamfest

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Wed, 27 Jan 1993 05:43:29 GMT
From: saimiri.primate.wisc.edu!usenet.coe.montana.edu!news.u.washington.edu!
sumax.seattleu.edu!thebes!ole!ssc!markz@ames.arpa
Subject: Any other W9RG DSP Filter users on the Net ?
To: info-hams@ucsd.edu

Jon Bloom (jbbloom@arrl.org) wrote:
: In rec.radio.amateur.misc, wvanhorn@magnus.acs.ohio-state.edu (William E Van
Horne) writes:

```

: > 3. The only real problem I had was mounting the LED bar display
: > on the front panel.
:
: An even easier way is to use a standard 20-pin solder-type IC socket, and
: bend one row of pins (pins 1-10) outward at a 90-degree angle. Install the
: socket in the board, then solder bus wire (or clipped resistor leads) to
: connect pins 11-20 to the holes in the board. Here's a side view of the
: result:
:
: socket --> |  --  | --\
: for   ---> |  |   | \  <- bus wire
: LEDs  ---> |  --  | \
:
:                =|====|===== <- PC board

```

Aries makes a socket like that. Digi-key sells them.

Kind of expensive, thought. \$5.13 for the 20 pin @ .3 spacing.
Must be the gold plating.

Mark Zenier markz@ssc.wa.com

```

-----
Date: 27 Jan 93 15:13:17 GMT
From: furuta@MIMSY.CS.UMD.EDU
Subject: Burglars are brighter than you might think!
To: info-hams@ucsd.edu

```

This snippet from the February Auto-Call gave me a bit of a pause. I thought the warning might be of interest to others as well:

Beware of the Eavesdroppers

Last summer I discussed over a local repeater my plans for a trip to Florida with my family. When we returned, our home had been burglarized. VCR, tape deck, coins, silverware, etc., were gone, and of course my ham equipment was missing. I did have my SSN and callsign on most of the rigs.

Two weeks later the police recovered a stolen car in the next state. The trunk of the car was filled with stolen property. On the front seat was a scanner programmed full of local repeaters and a 1992 call book with over 100 calls checked in a three state area. Beware of the eavesdroppers. Do not give out personal information over the air waves.

To embarrassed to sign.

Auto-Call, published by the Foundation for Amateur Radio, gives permission to reprint from their publication provided credit is given.

--Rick
N3JGF

Date: 27 Jan 1993 16:17:24 GMT
From: sun-barr!west.West.Sun.COM!l1-a!flloyd@ames.arp
Subject: Burglars are brighter than you might think!
To: info-hams@ucsd.edu

In article <63757@mimsy.umd.edu> furuta@cs.umd.edu (Richard Furuta) writes:
>This snippet from the February Auto-Call gave me a bit of a pause. I
>thought the warning might be of interest to others as well:
>
> Beware of the Eavesdroppers
>
> Last summer I discussed over a local repeater my plans for a trip
> to Florida with my family. When we returned, our home had been
> burglarized.

Very good subject. I don't think that this can be understated. I make it a personal practice NEVER to discuss vacation plans over the air. It doesn't matter if my ham friends are wondering why I'm not checking in on the local repeater. Whenever I go on vacation, I am simply MIA from the local ham scene as far as everyone knows. I sometimes tell my close friends, in private and off the air, but I ask them to please not talk about me while I'm away.

It's pretty scary really. I don't even like to mention the fact that my wife is in the car with me (meaning that the house is empty), even though we may just be out on a Sunday afternoon drive. On the other hand, the XYL would rather I talked to her anyway :-)

-fred

--
[Fred Lloyd, AA7BQ
[Sun Microsystems, Southwest Area Solaris Transition Manager]
[Phoenix, AZ (602) 275-4242]

Date: Wed, 27 Jan 93 15:53:19 GMT
From: elroy.jpl.nasa.gov!usc!rpi!sarah!sk7897@ames.arpa
Subject: Experience with MFJ 9020?
To: info-hams@ucsd.edu

Hi, my question is simple and short:

Is there anybody who has made experience with the MFJ9020 QRP rig?

Having thought about buying one, I would appreciate any comment very much.

Thanks and 73 de Sven

```
-----
-      |||||      Sven Oliver Krumke - Lehrstuhl fuer Informatik I -
-      {(o) (o)}   DL1ZR              - Am Hubland -
-      ( | )       - 8700 Wuerzburg -
-      ( \_ / )    - Germany -
-      \   /
-      | |
-      | \ _ / |   Email: krumke@informatik.uni-wuerzburg.de -
-      | / 0 \ |   current: sk7897@csc.albany.edu -
-      S K
-----
```

Date: 27 Jan 93 15:45:06 CST
From: sdcrsi!equalizer!timbuk.cray.com!hemlock.cray.com!cherry10!
dadams@network.UCSD.EDU
Subject: Ham on Rescue 911
To: info-hams@ucsd.edu

In article 2912@hemlock.cray.com, dadams@cray.com (David Adams) writes:
|In article 17u@spool.mu.edu, jason@studsys.mscs.mu.edu (Jason Hanson) writes:
||Did anyone see the ham from G-land on tonight's episode of Rescue 911? They
||showed him using CW and also showed a wall of QSL cards.
||--
||Jason Hanson | 915 W. Wisconsin Ave #1010 | (414) 288-2179
||Marquette University | Milwaukee, WI 53233-2373 | Ham Radio: N9LEA/AA
||-- jason@studsys.mscs.mu.edu ==+== n9lea@n0ary.#nocal.ca.usa.na --
|
|
|Yep. I saw that.

And too bad it wasn't a case where the ham was coming to the rescue.

--David C. Adams Statistician Cray Research Inc. dadams@cray.com

Old Sourdoughs never die. They just ferment away.

Date: 27 Jan 93 02:52:00 GMT

From: csus.edu!netcom.com!netcomsv!dlb!zygot!john@decwrl.dec.com

Subject: Ham Radio Causes Cancer

To: info-hams@ucsd.edu

In article <C1F8Fp.4wM@inews.Intel.COM> jreece@sousa.intel.com writes:

>There have been a number of "reports" on the major TV news magazines and
>tabloid shows about electromagnetic fields in general, and RF in particular,
>causing cancer. It's hard to say how much there is in it, given how
>the media loves to peddle health and safety scares.

Given that there are absolutely no studies making a scientific link
between RF and cancer, it is safe to say that until there is real
evidence to the contrary, there is NOTHING in it.

Please remember that this latest hoohah is the result of a lawsuit
against NEC and GTE Mobilnet blaming a cellular phone for the death of
a woman. This is a court action; neither side will have the slightest
amount of science on its side (the studies are just not there), but the
court will rule one way or the other. Based upon what? Based upon what
courts usually decide upon: who presents the best emotional case.

By all rights, the case should be thrown out of court for lack of REAL
evidence. But the man who lost his wife to cancer has beaucoup
emotional points in his favor and the other side has some very deep
pockets. It looks like a real legal horserace to me. And, of course, if
the court decides against NEC/GTE Mobilnet, then that very case will be
used as "evidence" to prove that cellular phones cause cancer.

>RF tissue heating is mentioned in the various ARRL license manuals.

This is about all we know about RF and its effects upon living tissues.
Particularly sensitive are the eyes which can develop cataracts. But
again, we are talking about many watts from a feedhorn, not a couple of
watts from a 450 handheld (with intermittent duty, at that). And I
would not lose much sleep over the fixed base unit, either. The
inverse/square law has not yet been repealed.

I swear if I hear about one more thing that "causes cancer"...

--

John Higdon | P. O. Box 7648 | +1 408 264 4115 | FAX:
john@ati.com | San Jose, CA 95150 | 10288 0 700 FOR-A-M00 | +1 408 264 4407

Date: 28 Jan 93 00:13:34 GMT
From: pa.dec.com!engage.pko.dec.com!nntpd.lkg.dec.com!nntpd2.cxo.dec.com!
nuts2u.enet.dec.com!little@decwrl.dec.com
Subject: Info needed on 2m & 70cm Satellite connections.
To: info-hams@ucsd.edu

Jose, the only difficulty might be that A0-13 tends to favor the Northern Hemisphere so it's a little harder to find times to work it from down under. But as Luck (one of my first OSCAR contacts) points out, there is a lot of DX on the birds. I'm also discovering that you can get up on Mode B without too great an investment if you have a 10 meter transmitter and receiver (or a transceiver and receiver). If you get up on A0-10 or A0-13, let me know as I still need to work VK!

Luck, I find it interesting that VUCC is available on satellites. I had heard about that change and in fact am working towards the new award, but find it a little strange. I have yet to work more than a couple of grids more than once. It's almost as though every contact adds a new grid for me. Have there been many satellite VUCC applications?

73,
Todd
N9MWB (QRV on A0-10, RS-10, A0-13, F0-20, and A0-21 from EN52xb)

Date: 27 Jan 1993 10:49:48 -0500
From: dog.ee.lbl.gov!overload.lbl.gov!agate!netsys!ukma!cs.widener.edu!widener!
nobody@network.UCSD.EDU
Subject: KAM 6.0 eprom
To: info-hams@ucsd.edu

Recently I was ftping from nic.funet.fi, and in one of the directories on there system was a file called KAM60.BIN in an eprom directory. Being as it is exactly the size of a 27512, and the kam uses a 27512 I do presume that it is an eprom for the kam. But what does it do? Who wrote it? Where is the documentation? who has the source? why would I use it?

73,
stuart
tener@cs.widener.edu

(215)-338-6005

Date: 27 Jan 93 15:42:44 CST
From: sdcrsi!equalizer!timbuk.cray.com!hemlock.cray.com!cherry10!
dadams@network.UCSD.EDU
Subject: LW antenna
To: info-hams@ucsd.edu

Suppose one would like to try to pick up some DX stations on the AM broadcast band. Usually the antenna is inside the radio. What could one do to set up a more sensitive antenna? Is there anything one can do without spending much \$\$? What if space is limited to a small back yard. (I can go maybe 200' max.)

--David C. Adams Statistician Cray Research Inc. dadams@cray.com

Old Sourdoughs never die. They just ferment away.

Date: Wed, 27 Jan 1993 13:23:10 GMT
From: elroy.jpl.nasa.gov!usc!howland.reston.ans.net!paladin.american.edu!gatech!
rpi!newsserver.pixel.kodak.com!laidbak!tellab5!jwa@ames.arpa
Subject: New filter for RTTY and packet
To: info-hams@ucsd.edu

A new filter circuit called the "Bowtie Filter" will soon be available for the PK232. It improves filter response and provides maximum mark/space separation.

It also improves the "crossed footballs" on a tuning oscilloscope by displaying a + or bowtie pattern. By using the tuning scope and a bowtie you can tune you radio within a couple of hertz of a packet center frequency. The filter can also copy shifts as low as 30 Hz and still maintain the (+) bowtie display.

I saw a prototype that was installed in an Infotech M8000 and the o-scope display was impressive. I was able to tune the receiver in 10 Hz steps, on a dead carrier and watch the o-scope display go from | to / to - .

The filters are available from Willco Electronics P.O. Box 788
New Lenox Ill. 60451

Jack Albert Fellow Radio Hacker
 Tele (708) 512-7854
Tellabs, Inc. FAX (708) 852-7346
4951 Indiana Ave. jwa@tellabs.com
Lisle, IL
60532 Do things really go better with Coca-Cola?

Date: 27 Jan 1993 17:18:02 GMT
From: dog.ee.lbl.gov!overload.lbl.gov!agate!spool.mu.edu!caen!
ggmac147.engin.umich.edu!davos@network.UCSD.EDU
Subject: QRP amplifier ?
To: info-hams@ucsd.edu

I just finished building a QRP transciever for 40M and found that I still
have room
to spare in the case, so I was wondering if it would be worth building a
small
amplifier that would boost the current output from 1W to ~5W ? I hope
to try and do some DX from Asia, so I was thinking that I could use all
the
gain I can get (but still stay QRP, and small size).

If anyone has any applicable experience (I have none) or knows of where
plans for such
an amp. exist, please mail me.

73
Alexander Slingeland (N8SPG)

Date: 27 Jan 1993 16:27:56 GMT
From: elroy.jpl.nasa.gov!swrinde!sdd.hp.com!col.hp.com!bobw@ames.arpa
Subject: TM-732 Intermod (was:Kenwood tm-732 mod/functions)
To: info-hams@ucsd.edu

Here's the letter I send to Kenwood concerning the problems with the
TM-732. I'm not sure that the Call Channel/DTMF Squelch problem
has been discussed here on the net. Apparently, Kenwood does have
a fix for it (a new uProc chip). The unit has been sent in under
warranty. Stand by for further developments.

Kenwood U.S.A.
Service Department

P.O. Box 22745
Long Beach, CA 90801

Dear Sir:

In early December, I purchase a Kenwood TM-732A from Ross Distributing. On or about December 15, 1992 I contacted your service department concerning a problem I am having with my just-out-of-the-box transceiver (S/N 30900108). The first time I called I talked with Ken Riley. The second time I discussed the situation with someone identified as "Bob".

The problem I am experiencing is quite strange, but Bob was able to duplicate the problem on a unit at your service center. The problem is as follows: If the CALL channel is programmed with a frequency that has an EVEN digit in the "MHz" position, the DTSS feature does not work properly. For example, programming the call frequency with 146.52 MHz (the MHz digit is 6, even), switching to a memory channel and enabling the DTSS will result in the radio NOT responding to the appropriate 3 digit DTMF code. On the other hand, if the call frequency is changed to 145.52 MHz (with a 5 in the MHz position), the DTSS feature works as advertised.

This sounds like a design flaw which needs to be fixed by the appropriate design engineer. Bob said he would check into the matter and get back to me, but I have heard nothing.

A second problem has now become apparent. The UHF receiver is very susceptible to interference from a local pager transmitter. I am familiar with the problems of pager interference, but other radios that I have do not exhibit this problem anywhere near to the degree that the TM-732A does. That is, when driving through certain geographical areas the other radios remain quiet while the TM-732A's squelch opens and annoying audio is heard. This makes the radio almost useless in many locations. I believe the paging transmitter giving me the most problem is on 462.875 MHz.

Both of these problems make me extremely disappointed with the quality of the Kenwood TM-732A. Please advise me as soon as possible as to how Kenwood will correct this situation. I can be reached at (719) 590-3230 during normal business hours (Colorado time).

Regards,

Bob Witte

Date: 27 Jan 1993 19:45:13 GMT
From: usc!howland.reston.ans.net!bogus.sura.net!darwin.sura.net!mojo.eng.umd.edu!
chuck@network.UCSD.EDU
Subject: Transmit Power with Nicads vs. Alkaline
To: info-hams@ucsd.edu

In article <20360123@hplsla.hp.com> davidc@hplsla.hp.com (David Cook) writes:
>I recently purchased a Standard C168A 2 meter HT and according to the
>specifications in the operating manual it transmits at 2.8 watts with
>the 7.2 volt nicad battery that is shipped with it. I also purchased
>the dry cell battery case which holds 5 AA's. 5 alkaline batteries
>would supply 7.5 volts and yet the specifications say that when using
>the dry cell case output power is only 1 watt. What gives here? Is
>this an error or are nicad's really able to supply that much more
>current than alkaline batteries?

Yep! AA Nicads can supply so much current, that in a short circuit condition, they can quite easily set the battery pack on fire. Something that wouldn't usually happen with AA alkalines.

The Nicads will sustain a voltage >1.2v per cell until almost all of the charge is exhausted, then drop rapidly. The alkalines, on the otherhand, will slowly drop in voltage thru out the discharge.

73,

Chuck Harris - WA3UQV
chuck@eng.umd.edu

Date: Wed, 27 Jan 1993 16:15:32 GMT
From: dog.ee.lbl.gov!overload.lbl.gov!agate!spool.mu.edu!uwm.edu!cs.utexas.edu!
torn!news.ccs.queensu.ca!venus!pas@network.UCSD.EDU
Subject: Update: intermod, desense, overload
To: info-hams@ucsd.edu

A while back I posted a question about the possibility of a local FM broadcast station causing desensitization of a Pro-2006 scanner following the installation of a Diamond discone roof top antenna. Several replies confirmed my suspicions based on the evidence of reception IMPROVING when a 10dB attenuator was placed in the antenna feed. I have since installed the Grove Scanner Filter which is a passive device that notches out several bands including <30Mhz, FM broadcast and TV broadcast. For those who requested I post the results of using the filter, I am pleased to report

that the "desense" problem went away instantly. I was however, somewhat disappointed with the filter from Grove:

1. the backside of the one-page instructions was so poorly photocopied, it was illegible
2. the connector at one end of the filter had become unsoldered and had to be fixed
3. the instructions for adjusting the adjustable notch filter were not clear and the diagram did not match the circuit board layout

Grove have served me well twice in the past and I hope this is not a trend.

cheers,
Peter

Peter A. Stokes _____ Voice: (613) 545-2923
Engineering Applications Support Fax: (613) 548-8104
Canadian Microelectronics Corporation Email: pas@jupiter.ic.cmc.ca
Kingston, Ontario, Canada _____

Date: 27 Jan 1993 16:38:30 GMT
From: dog.ee.lbl.gov!overload.lbl.gov!agate!spool.mu.edu!studsys.mscs.mu.edu!
jason@network.UCSD.EDU
Subject: Wheeling Hamfest
To: info-hams@ucsd.edu

Can anyone send me info on this weekend's Wheeling Illinois hamfest? I am looking for location, times, talk-in freqs, etc...

Thanks in advance!

--
Jason Hanson | 915 W. Wisconsin Ave #1010 | (414) 288-2179
Marquette University | Milwaukee, WI 53233-2373 | Ham Radio: N9LEA/AA
-- jason@studsys.mscs.mu.edu ==+== n9lea@n0ary.#nocal.ca.usa.na --

Date: 27 Jan 93 06:40:58 GMT
From: noao!asuvax!gatech!news.byu.edu!eff!news.oc.com!@arizona.edu
To: info-hams@ucsd.edu

References <1993Jan13.221026.7540@ncsu.edu>, <1993Jan13.221614.7782@ncsu.edu>,
<stellabo.727010877@phage.cshl.org>u

In article <stellabo.727010877@phage.cshl.org> stellabo@phage.cshl.org (Fred Stellabotte) writes:

[stuff deleted]

>

>>etc.

>

 \succ

>Just a Tip ... Radio Shack just put their HDX-100 ten meter rig

on sale for \$199.

 γ

>-Fred

>

>

>

```
> >| ==== Fred J. Stellabotte N2JCD                                stellabo@cschl.org
```

```
> >| ==== Computer Systems Manager
```

```
> >| ==== CFIA SEL MEL Commerical Instrument
```

> > | ===

> >| ==== Cold Spring Harbor Laboratory Voice: (516)367-8420

> >| ==== 1 Bungtown Road Fax: (516)367-8845

```
> >| ==== Cold Spring Harbor, New York 11724
```

 \succ

Slight problem. He's a no-code Tech which means that he can't use a 10 meter till he gets the code.

— —

Chang Yoon cyoon@utdallas.edu	"Our children know EVERYTHING, we have cable." - Ms. Penbroke, C 'n C
----------------------------------	--

Date: Wed, 27 Jan 1993 13:46:48 GMT

From: haven.umd.edu!darwin.sura.net!gatech!rpi!newsserver.pixel.kodak.com!laidbak!

tellab5!jwa@ames.arpa

To: info-hams@ucsd.edu

References <1993Jan25.195100.4623@nntpd.1kg.dec.com>,

<C1Fn0M.4tF@anomaly.sbs.com>, <93026.143919MGB@SLACVM.SLAC.STANFORD.EDU>win.s

Subject : Re: Real NoCodes

In article <93026.143919MGB@SLACVM.SLAC.STANFORD.EDU>

<MGB@SLACVM.SLAC.STANFORD.EDU> writes:

>I have a Tech Plus liscense and am currently studying for my General. I

>also have numerous CB's which I use for vehicle/vehicle or ship/shore/vehicle
>communications. I have become involved with a number of Ares/Races groups
>and part of our Ham Club at work. Listening to some of the people who have
>General Licenses on UHF, VHF, and HF, however, makes me wonder, however
>what they are complaining about as to the no-code techs. The pompous,
>elitist know it all attitudes and the level of language used by these
>"OM's" is worse than "kid" channels on CB. Although I can't speak about
>those who only use code, I'm still working on getting to an acceptable level
>of competence to copy them, the mentality of a number of "old timers" I have
>heard makes me wonder if they are keying the mic's with their tails.
>
>I can not help but wonder if those decrying "no-codes" are either so myopic
>that they do now see the jerks among their own ranks, or perhaps are part
>of the group that makes CB look good by comparison.
>
>Michael
>KD6OAY
>TechPlus

A new filter circuit called the "Bowtie Filter" will soon
be available for the PK232. It improves filter response and
provides maximum mark/space separation.

It also improves the "crossed footballs" on a tuning oscilloscope
by displaying a + or bowtie pattern. By using the tuning scope
and a bowtie you can tune your radio within a couple of hertz of
a packet center frequency. The filter can also copy shifts as
low as 30 Hz and still maintain the (+) bowtie display.

I saw a prototype that was installed in an Infotech M8000 and
the o-scope display was impressive. I was able to tune the receiver
on a dead carrier and watch the o-scope display go from | to /
to - in 10 Hz steps.

The filter boards will be available from Willco Electronics
P.O. Box 788, New Lenox, IL 60451

Jack Albert	Fellow Radio Hacker
	Tele (708) 512-7854
Tellabs, Inc.	FAX (708) 852-7346
4951 Indiana Ave.	jwa@tellabs.com
Lisle, IL	

60532

Do things really go better with Coca-Cola?

End of Info-Hams Digest V93 #122
